

## IN THE CLAIMS

1. (Amended) A method [Method] for [the] transmission of information in various carrier frequencies with [a] frequency hopping [method], comprising the following steps:

generating [(22)] a sequence of random values;  
reading out at least a part M of the N carrier frequency values  $f_x$  from [the]

transmitting [(4, 6)] information in the corresponding carrier frequencies,  
[whereby]

20      sampling [(26)] a carrier frequency;  
      deciding [(27)] whether a message containing at least an initialization information

25 when the deciding step [decision] is positive, generating [(30)] the sequence of  
random values upon employment of the initialization information.

2.(Amended) A method [Method] according to claim 1, further comprising the step of: [characterized in that]

converting the generated sequence of random values [is converted] into address values between 1 and N with which the carrier frequency values are read from the table [(25)].

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3.(Amended) A method [Method] according to claim 1 [or 2], comprising [characterized in that] the following steps: [are implemented for the] implementing a synchronization including the steps of:

sampling [(26)] a carrier frequency;

10 deciding [(27)] whether a message was received on [this] said carrier frequency during a specific time span;

when the [decision] deciding step is negative, selecting a new carrier frequency and sampling said [this] new carrier frequency;

when the [decision] deciding step is positive, generating [(30)] the sequence of random values upon employment of the message.

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4.(Amended) A method [Method] according to claim 1, further comprising the steps of: [one of the preceding claims, characterized in that]

reading out a part M of the N possible carrier frequency values [is read out] from the table [(25)], [whereby the] employing remaining N-M carrier frequency values [are employed] for replacing disturbed carrier frequency values of the M carrier frequency values.

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5.(Amended) A method [Method] according to claim 4, further comprising the step of: [characterized in that the table (25) is updated (31)]

updating from the N-M carrier frequency values before the read-out upon

replacement of the carrier frequency values that correspond to disturbed carrier frequencies.

6.(Amended) An apparatus [Apparatus] for [the] transmission of information in various carrier frequencies with a frequency hopping method, comprising;

[a means (23) for offering] a table [(25)] with a plurality of n possible carrier frequency value  $f_x$  in addresses 1 through N of the table [(25)];

a random value generator [a means (22)] for generating a sequence of random values;

a means [(23)] for reading out at least a part M of the N carrier frequency values  $f_x$  from [the] corresponding addresses of the table [(25)] on [the] a basis of the generated sequence of random values, [whereby]  $M \leq N$ ; and

transmitting apparatus [a means (4, 6)] for transmitting information in the corresponding carrier frequencies, [whereby]

a means for [the] setup [for the setup *[sic]*] of a connection includes [is provided that comprises]:

means [(26)] for sampling a carrier frequency;

means [(27)] for deciding whether a message containing at least an initialization information was received on said [this] carrier

frequency during a specific time span [;] configured such that, when the decision is negative, a new carrier frequency is selected and said [this] new carrier frequency is sampled, and, when the decision is positive, the sequence of random values is generated upon employment of at least the initialization information.

7.(Amended) An apparatus [Apparatus] according to claim 6, further comprising: [characterized by]

a means for converting the generated sequence of random values into address values between 1 and N with which the carrier frequency values are read from the table [(25)].

8.(Amended) An apparatus [Apparatus] according to claim 6 [or 7], further comprising: [characterized in that]

a means for synchronization including [is provided that comprises]:

means [(26)] for sampling a carrier frequency;

means [(27)] for deciding whether a message containing at least an initialization information was received on said [this] carrier frequency during a specific time span [,] configured such that, when the decision is negative, a new carrier frequency is selected and said [this] new carrier frequency is sampled, and, when the decision is positive, the sequence of random values is generated upon employment of at least the initialization information.

9. (Amended) An apparatus [Apparatus] according to claim [one of the claims] 6 [through 8], wherein [characterized in that] the means [(31)] for readout reads a part M of the N possible carrier frequency values from the table, [whereby] the remaining N-M carrier frequency values being [are] employed for replacing disturbed carrier frequency values of the M carrier frequency values.

10. (Amended) An apparatus [Apparatus] according to claim 9, [characterized by] a means [(32)] for updating that updates the table from the N-M carrier frequency values before the readout upon replacement of the carrier